



(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	(Form PCT/ISA/2	of Transmittal of International Search Report (20) as well as, where applicable, item 5 below.
76.0779 WO	ACTION	
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/IB 03/04613	20/10/2003	24/10/2002
Applicant		
SCHLUMBERGER SYSTEMES	· · · · · · · · · · · · · · · · · · ·	
This International Search Report has bee according to Article 18. A copy is being tra	n prepared by this International Searching Authansmitted to the International Bureau.	nority and is transmitted to the applicant
This International Search Report consists It is also accompanied by	of a total of4 sheets. a copy of each prior art document cited in this	report.
Basis of the report		
With regard to the language, the language in which it was filed, unit	international search was carried out on the bas less otherwise indicated under this item.	sis of the international application in the
the international search w Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of t	he international application furnished to this
b. With regard to any nucleotide an was carried out on the basis of the contained in the internation	e sequence listing : onal application in written form.	sternational application, the international search
	ernational application in computer readable for	n.
1 🖃	this Authority in written form.	
{ 	this Authority in computer readble form.	
the statement that the sul international application a	osequently furnished written sequence listing d is filed has been furnished.	oes not go beyond the disclosure in the
the statement that the info furnished	ormation recorded in computer readable form is	s identical to the written sequence listing has been
2. Certain claims were fou	nd unsearchable (See Box I).	
3. Unity of invention is lac	king (see Box II).	
4. With regard to the title,		
X the text is approved as su	ibmitted by the applicant.	
the text has been establis	shed by this Authority to read as follows:	
5. With regard to the abstract,		
X the text is approved as su		
the text has been establis within one month from the	shed, according to Rule 38.2(b), by this Authori e date of mailing of this international search rep	ty as it appears in Box III. The applicant may, port, submit comments to this Authority.
6. The figure of the drawings to be published.	ilshed with the abstract is Figure No.	2
x as suggested by the appl	cant.	None of the figures.
because the applicant fail		
because this figure better	characterizes the invention.	

A. CLA	SSIFIC	CATION OF S	UBJECT	EΡ		
IPC	7	G06K19/	'073 '	J71	-7/	10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\label{localization} \begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{G06K} & \mbox{G07F} \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

Category °	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.		
Х	US 5 594 227 A (DEO VINAY)	1-7,10,		
	14 January 1997 (1997-01-14)	13-16 8,9,11,		
A		12		
	column 1, line 7 -column 2, line 38			
	column 5, line 5 - line 10			
	column 8, line 65 -column 9, line 67 figures 4,7			
χ	US 5 559 505 A (MCNAIR BRUCE E)	1,3-7,		
	24 September 1996 (1996-09-24)	10,13-16		
	column 1, line 19 -column 2, line 49 column 3, line 22 -column 4, line 62			
	figures 2,3			
	-/			

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the International filling date "L" document which may throw doubts on priority clalm(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
12 January 2004	22/01/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswljk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Geiger, J-W

PCT/	ΊB	03/	04	61	3

	ation) DOCUMENTS CO	
Category :	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	US 4 484 067 A (OBRECHT WERNER) 20 November 1984 (1984-11-20)	1,3,4,6, 7,10,13, 14,16
	column 1, line 5 - line 35 column 2, line 31 - line 59 column 3, line 28 - line 48 column 4, line 15 - line 42 column 5, line 57 -column 6, line 40	
x	PATENT ABSTRACTS OF JAPAN vol. 010, no. 034 (P-427), 8 February 1986 (1986-02-08) 8 JP 60 181887 A (TATEISHI DENKI KK), 17 September 1985 (1985-09-17) abstract	1
A	DE 198 18 998 A (GIESECKE & DEVRIENT GMBH) 4 November 1999 (1999-11-04) column 1, line 8 -column 3, line 30	1-16
A	US 6 276 604 B1 (PROIDL ADOLF) 21 August 2001 (2001-08-21) column 2, line 51 -column 3, line 63	1-16
A	EP 0 809 217 A (NIPPON ELECTRIC CO) 26 November 1997 (1997-11-26) column 2, line 56 -column 6, line 31	1-16

PCT/	TR.	በ2/	′ሰለ	ĸ	1	3
101/	Ţυ	03/	VT	v	+	J

							·
	atent document d in search report		Publication date		Patent family member(s)		Publication date
US	5594227	Α	14-01-1997	NONE			
US	5559505	Α	24-09-1996	NONE			
US	4484067	A	20-11-1984	DE	3041109		09-06-1982
				BE	890950		15-02-1982
				CH	656014		30-05-1986
				FR	2493564		07-05-1982
				GB	2088605		09-06-1982
				IT		В	05-11-1986
				JP	1747224		25-03-1993
				JP JP	57120183 63043791	A B	27-07-1982 01-09-1988
				JP	1727825	_	19-01-1993
				JP	2288993	-	28-11-1990
				JP	4013753		10-03-1992
				NL	8104842		17-05-1982
				SE		B , 2,	10-09-1990
				SE	8106354	_	01-05-1982
				SE	506491	C2	22-12-1997
				SE	9001035	A	23-09-1991
JP	60181887	Α	17-09-1985	NONE		 _	
DE	19818998	Α	04-11-1999	DE	19818998	A1	04-11-1999
US	6276604	B1	21-08-2001	AT	227455	T	15-11-2002
				DE	69903791		12-12-2002
				DE	69903791		03-07-2003
				MO	0011623		02-03-2000
				EP	1044437		18-10-2000
				JP	2002523831	T 	30-07-2002
EP	0809217	Α	26-11-1997	JP	2842377		06-01-1999
				JP	9311896		02-12-1997
				DE		D1	07-11-2002
				DE	69715965		30-01-2003
		•		EP US	0809217 5936543		26-11-1997 10-08-1999